

## CLAIMS

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1. A fuel cell system comprising at least one unit of  
fuel cells and auxiliary soluble metal anode batteries for  
producing hydrogen gas by dissolution of a soluble metal in  
5 an electrolyte.

2. A fuel cell system comprising fuel cells; an  
electrolysis system operated under a high pressure to  
generate hydrogen gas and oxygen gas and adapted to supply  
these gases to said fuel cells, and an auxiliary power  
source for supplying an electric power to said electrolysis  
system.

3. The fuel cell system according to claim 2, wherein  
said auxiliary power source is metal anode batteries.

4. The fuel cell system according to claim 3, wherein  
15 said metal anode batteries generally comprises soluble  
metal anodes and insoluble cathodes separated one another  
by separators and arranged in a casing or tank containing  
an electrolyte.

5. The fuel cell system according to claim 2, wherein  
20 said auxiliary power source is wind power generators.

6. The fuel cell system according to claim 2, wherein  
said auxiliary power source is solar battery system.

7. The fuel cell system according to claim 2, wherein  
25 said an electrolysis system is a high pressure electrolysis  
system.